

**Product Name: Cdc25C (phospho Thr48) Rabbit Polyclonal Antibody**  
**Catalog #: APRab04425**

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## Summary

|                        |                                                   |
|------------------------|---------------------------------------------------|
| <b>Production Name</b> | Cdc25C (phospho Thr48) Rabbit Polyclonal Antibody |
| <b>Description</b>     | Rabbit Polyclonal Antibody                        |
| <b>Host</b>            | Rabbit                                            |
| <b>Application</b>     | WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA                   |
| <b>Reactivity</b>      | Human,Rat,Mouse                                   |

## Performance

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| <b>Conjugation</b>  | Unconjugated                                                                                      |
| <b>Modification</b> | Phosphorylated                                                                                    |
| <b>Isotype</b>      | IgG                                                                                               |
| <b>Clonality</b>    | Polyclonal                                                                                        |
| <b>Form</b>         | Liquid                                                                                            |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| <b>Buffer</b>       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| <b>Purification</b> | Affinity purification                                                                             |

## Immunogen

|                          |                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | CDC25C                                                                                                                                           |
| <b>Alternative Names</b> | CDC25C; M-phase inducer phosphatase 3; Dual specificity phosphatase Cdc25C                                                                       |
| <b>Gene ID</b>           | 995.0                                                                                                                                            |
| <b>SwissProt ID</b>      | P30307.The antiserum was produced against synthesized peptide derived from human CDC25C around the phosphorylation site of Thr48. AA range:14-63 |

## Application

|                         |                                                                             |
|-------------------------|-----------------------------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:5000, IF-P/IF-F/ICC/IF 1:50-200 |
| <b>Molecular Weight</b> | 80kDa                                                                       |

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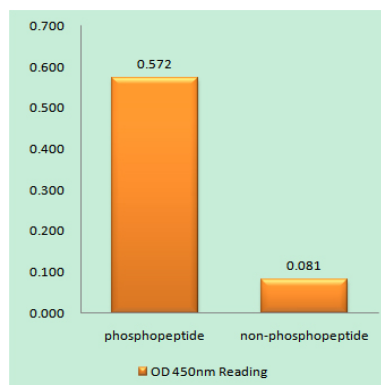
## Background

cell division cycle 25C(CDC25C) Homo sapiens This gene encodes a conserved protein that plays a key role in the regulation of cell division. The encoded protein directs dephosphorylation of cyclin B-bound CDC2 and triggers entry into mitosis. It also suppresses p53-induced growth arrest. Multiple alternatively spliced transcript variants of this gene have been described. [provided by RefSeq, Dec 2015],catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,developmental stage:Expressed predominantly in G2 phase.,function:Functions as a dosage-dependent inducer in mitotic control. It is a tyrosine protein phosphatase required for progression of the cell cycle. It directly dephosphorylates CDC2 and activate its kinase activity.,PTM:Phosphorylated by CHK1 on Ser-216. This phosphorylation creates a binding site for 14-3-3 protein and inhibits the phosphatase.,similarity:Belongs to the MPI phosphatase family.,similarity:Contains 1 rhodanese domain.,subunit:Interacts with HIV-1 Vpr, thereby inactivating CDC25C phosphatase activity.,

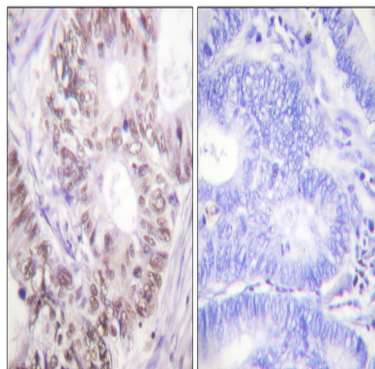
## Research Area

Cell\_Cycle\_G1S;Cell\_Cycle\_G2M\_DNA;Oocyte meiosis;Progesterone-mediated oocyte maturation;

## Image Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using CDC25C (Phospho-Thr48) Antibody

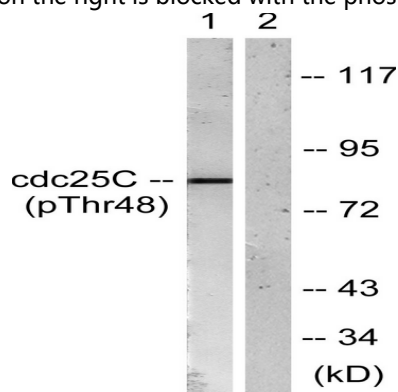


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Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using CDC25C (Phospho-Thr48) Antibody.

The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from RAW264.7 cells, using CDC25C (Phospho-Thr48) Antibody. The lane on the right is blocked with the phospho peptide.

**Note**

For research use only.